



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Apud System							
Course Code		BiO627		Couse Level		Third Cycle (Doctorate Degree)			
ECTS Credit	7	Workload	175 ( <i>Hours</i> )	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		It aims to give information about the origins, morphology and definition of cells which are capable of amine precursor uptake.							
Course Content		It aims to give information about the origins, morphology and definition of cell groups that are dispersed among body tissues anda are not limited with endocrine glands, their receptor characteristics and mechanisms.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Case Study					
Name of Lecturer(s)									

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

### Recommended or Required Reading

1	Thibodeau G.A., Patton K. Anatomy and Physiology. Second edition. Mossby Year Book. ISBN 0-8016-5005-4, p 968, 1993
2	Endokrin sistem ve hastalıkları / Mustafa Akgün...[ve öte.] ; ed. Murat Alper, Sami Selçuk Biricik İstanbul, Nobel Tıp Kitabevleri, 219 s., 1999

Week	Weekly Detailed Course Contents	
1	Theoretical	What is APUD system? It's origin and importance
2	Theoretical	Microscopic cell structures , their staining characteristics
3	Theoretical	Apud system cell types, their secretories
4	Theoretical	Receptor characteristics of apud cells
5	Theoretical	Classification of hormones
6	Theoretical	Mechanisms of hormones
7	Theoretical	Mechanisms of hormones
8	Theoretical	Classification of Apud cells that are widely spread among tissues
9	Theoretical	Secretions and mechanisms of apud cells that are dispersed in nevre system
10	Theoretical	Secretions and mechanisms of apud cells that are dispersed in nevre system -Contuniation
11	Theoretical	Secretions and mechanisms of apud cells that are dispersed in respiration system
12	Theoretical	Secretions and mechanisms of apud cells that are dispersed in circulation system
13	Theoretical	Secretions and mechanisms of apud cells that are dispersed in excretion system
14	Final Exam	Final exam

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	13	2	3	65
Assignment	13	2	1	39
Laboratory	13	2	3	65
Midterm Examination	1	2	1	3
Final Examination	1	2	1	3
Total Workload (Hours)				175
[Total Workload (Hours) / 25*] = ECTS				7
*25 hour workload is accepted as 1 ECTS				

### Learning Outcomes

1	To define the histological structure of isolated groups of cells that make hormones.
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2	To define the function mechanisms of endocrine system.
3	Learning about the diseases caused by hormones.
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**Programme Outcomes (Biology Doctorate)**

1	To have enough scientific background knowledge towards a specific study and research area
2	To have an ability to identify, evaluate and develop a solution for a problem on biological aspects
3	To be able to evaluate scientific observations and results of experiments using statistical analysis methods
4	To have basic skills in areas related to field of biological studies
5	To have the ability to develop cooperation with different disciplines with the high level of social communication required for studies
6	To have knowledge of technology and use of methods and means used in biological researches
7	To have an ethical understanding which will be a guide for their investigations and publications
8	For PhD; to have European Language Portfolio C1 general level language skill
9	To be able to present and discuss own research results in accordance with scientific discipline using technological tools in scientific research environments
10	To be able to detect and evaluate economic and social impacts of an own original research results
11	To be equipped with ability of carrying out independent study in biological field
12	To be able to publish at least one an international/national peer reviewed scientific paper and/or produce or interpret an original work related to biology in order to expand the frontiers of knowledge
13	To be able to develop new approaches or adaptations to be used in solving scientific and biological problems
14	To be able to develop new understanding and approaches in order to explain a new phenomenon or a biological event under investigation
15	To have abilities and experience to create new search area through inspiration gained from subject searched

**Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High**

	L1	L2	L3	L4	L5
P2	4	4	4		
P3	5	5	5		
P5	4	4	4	2	2
P8	5	5	5		
P9	5	5	5		

